

READING BOOKS MADE EASY FOR BLIND

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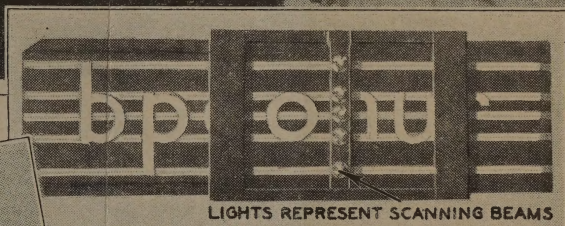


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AMERICAN PRINTING
HOUSE FOR THE BLIND**

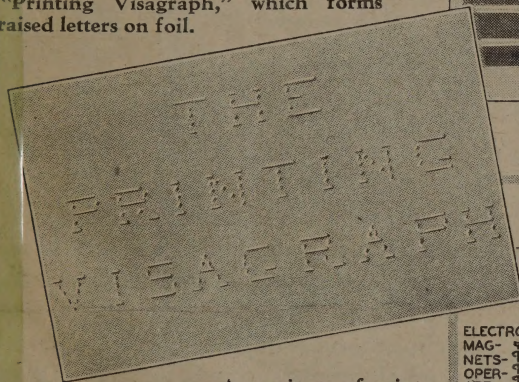
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 Reading Books Made Easy for Blind



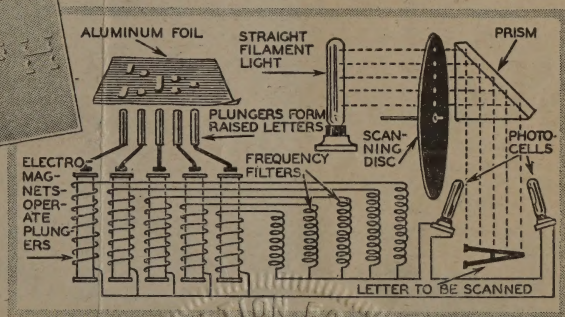
Robert Naumberg, inventor, demonstrating "Printing Visagraph," which forms raised letters on foil.



These enlarged letters show how scanning beam follows features of letters on printed page.



A specimen of printing on aluminum foil done by "Visagraph." Letters, formed by plungers, are enlarged from letters of printed page.



Wiring diagram here shows essential parts of "Visagraph." Scanning disc breaks beams into five frequencies, which are passed through filters to actuate magnetic plungers.

PERSONS afflicted with blindness may now read books, magazines and newspapers as rapidly and as easily as if they had the best eyesight, thanks to ingenuity of Robert E. Naumberg, of Cambridge, Massachusetts, who has perfected a new machine known as the "Printing Visagraph."

The "Printing Visagraph" may be described as television by touch for the blind. Five points of light scan the lines of a printed page, as illustrated in the accompanying diagram, examining the essential features of the

letters much like the human eye. A photo-electric cell picks up the light impulses from the scanning beams, and converts them into electrical impulses which actuate a row of magnetic plungers. On a large sheet of aluminum foil these plungers form raised letters corresponding to the letters being scanned. Reading is then a simple matter of passing the fingers over these raised letters.

TREASURE CAVES of



Vault of the Comptroller of Currency, with some \$250,000,000 of United States banknotes visible.

France, which has more gold than any other country except the United States, has just completed a huge underground storage vault guarded by every imaginable mechanical device. Uncle Sam, too, has an elaborate system of protecting the fabulous wealth of his treasury, as explained in this article.

al governments to protect the treasure chambers in which their gold and silver money is stored.

The design and construction of the U. S. Treasury safety vaults are orthodox. Uncle Sam relies on monolithic concrete walls studded internally with steel barriers to turn back the challenge of all—if any—who ever attempt to gain secret entrance. The vaults are protected adequately by combination and time locks and an electric signal system so arranged as to indicate to the captain of the watch and to Wash-

These sacks contain gold and silver coins; the packages on the shelves contain banknotes in amounts of \$50,000 and \$100,000.

UNDERGROUND rivers whose waters can be used to flood treasury vaults in time of danger, mountains of impenetrable steel and concrete, sensitive electric warning signals, rows of cylindrical doors opening only to a secret touch—these are a few of the amazing methods adopted by nation-

Photomount
Pamphlet
Binder

Gaylord Bros. Inc.

Makers
Syracuse, N. Y.

PAT. JAN 21, 1908

